OBLON, SPIVAK, ET AL DOCKET #: 208387US2 INV: Hideaki YAMAGATA, et al. SHEET 1 OF 8

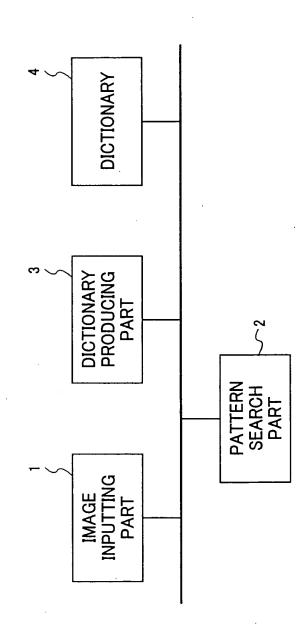
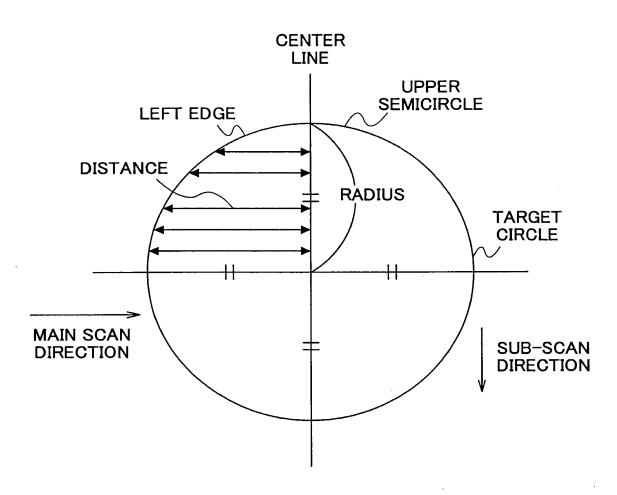


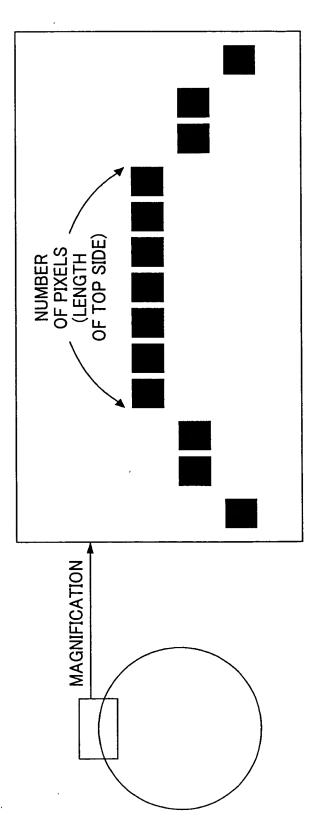
FIG. 1

OBLON, SPIVAK, ET AL DOCKET #: 208387US2 INV: Hideaki YAMAGATA, et al. SHEET 2_OF_8_

FIG.2



OBLON, SPIVAK, ET AL DOCKET #: 208387US2 INV: Hideaki YAMAGATA, et al. SHEET 3 OF 8

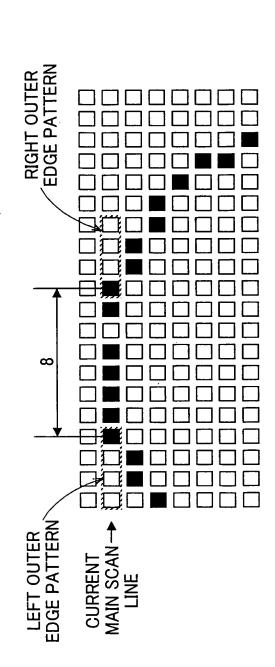


OBLON, SPIVAK, ET AL DOCKET #: 208387US2 INV: Hideaki YAMAGATA, et al. SHEET 4 OF 8

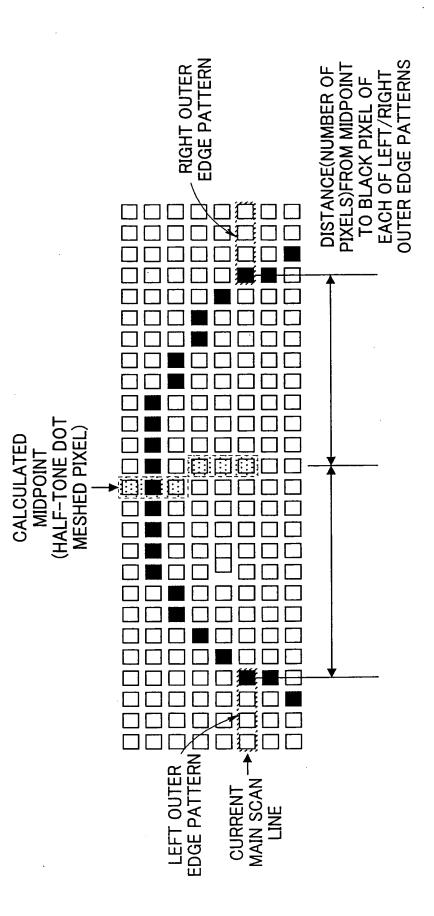
FIG.4 **START** SEARCH FOR 101ر BEGINNING **PATTERN** 102 NO REQUIREMENT SATISFIED? YES. **REGISTER AS** 103 **CANDIDATE SEARCH FOR** 104 **OUTER EDGE COUNT ERROR** 105 106 MORE THAN YES THRESHOLD? NO J 107 NO SEMICIRCLE FOUND? 108 110 YES, NO **DETECTION DETECTION** NO END OF SEARCH 109JNPUT IMAGE YES **END**

OBLON, SPIVAK, ET AL DOCKET #: 208387US2 INV: Hideaki YAMAGATA, et al. SHEET <u>5</u> OF <u>8</u>

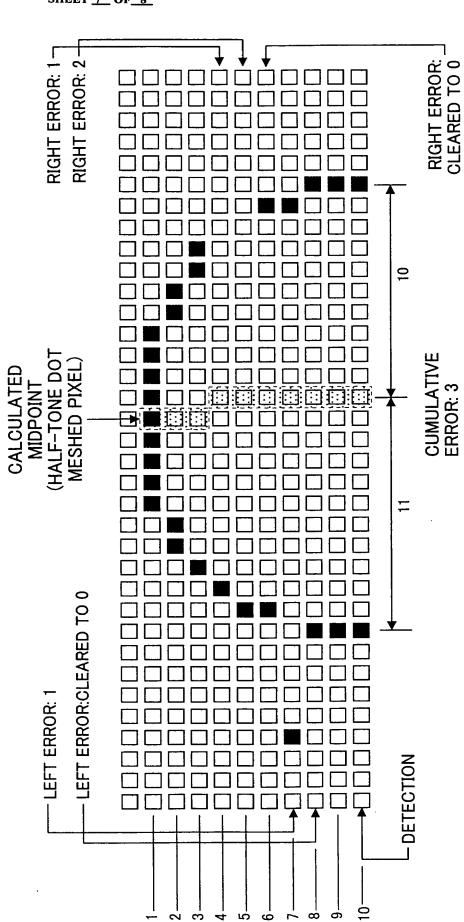
FIG.



OBLON, SPIVAK, ET AL DOCKET #: 208387US2 INV: Hideaki YAMAGATA, et al. SHEET <u>6</u> OF <u>8</u>



OBLON, SPIVAK, ET AL DOCKET #: 208387US2 INV: Hideaki YAMAGATA, et al. SHEET 7 OF 8



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OBLON, SPIVAK, ET AL DOCKET #: 208387US2 INV: Hideaki YAMAGATA, et al. SHEET 8 OF 8

